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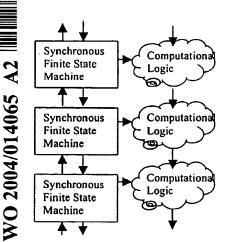
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### (54) Title: SYSTEM OF FINITE STATE MACHINES



(57) Abstract: A system of finite state machines built with asynchronous or synchronous logic for controlling the flow of data through computational logic circuits programmed to accomplish a task specified by a user, having one finite state machine associated with each computational logic circuit, having each finite state machine accept data from either one or more predecessor finite state machines or from one or more sources outside the system and furnish data to one or more successor finite state machines or a recipient outside the system, excluding from consideration in determining a clock period for the system logic paths performing the task specified by the user, and providing a means for ensuring that each finite state machine allows sufficient time to elapse for the computational logic circuit associated with that finite state to perform its task.